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NEWS 14 DEC 02 Derwent World Patent Index: Japanese FI-TERM
thesaurus added
NEWS 15 DEC 02 PCTGEN enhanced with patent family and legal status
display data from INPADOCDB
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NEWS EXPRESS MAY 26 09 CURRENT WINDOWS VERSION IS V8.4,
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=> s inflammatory bowel disease
L1 126927 INFLAMMATORY BOWEL DISEASE

=> s ulcerative colitis
L2 136270 ULCERATIVE COLITIS

=> s 11 and treatment
L3 54174 L1 AND TREATMENT

=> s 12 and treatment
L4 55828 L2 AND TREATMENT

=> s 14 and 12
L5 55828 L4 AND L

=> s 15 and (ferritin)

L7 279 L6 AND (IRON DEXTRAN)

1-8 4 L7 AND (DESFERROXAMINE)

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=> d 18 ti abs ibib tot

L8 ANSWER 1 OF 4 USPATFULL on STN
TI PHARMACEUTICAL USE OF NITRIC OXIDE, HEME OXYGENASE-1 AND PRODUCTS OF
HEME DEGRADATION
AB The present invention relates to the treatment of disorders
using nitric oxide (NO), heme oxygenase-1 (HO-1) and heme degradation
products such as carbon monoxide (CO), biliverdin, bilirubin and iron.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2008:195368 USPATFULL
TITLE: PHARMACEUTICAL USE OF NITRIC OXIDE, HEME OXYGENASE-1
AND PRODUCTS OF HEME DEGRADATION
INVENTOR(S): Bach, Fritz H., Manchester-by-the-sea, MA, UNITED
STATES
PATENT ASSIGNEE(S): Otterbein, Leo E., New Kensington, PA, UNITED STATES
Beth Israel Deaconess Medical Center, Inc., Boston, MA,
UNITED STATES (U.S. corporation)
University of Pittsburgh of the Commonwealth System of
Higher Education, Pittsburgh, PA, UNITED STATES (U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20080171021	A1	20080717
APPLICATION INFO.:	US 2007-931645	A1	20071031 (11)
RELATED APPLN. INFO.:	Division of Ser. No. US 2003-600182, filed on 20 Jun 2003, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-390457P	20020621 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FISH & RICHARDSON PC, P.O. BOX 1022, MINNEAPOLIS, MN, 55440-1022, US	
NUMBER OF CLAIMS:	3	
EXEMPLARY CLAIM:	1-15	
NUMBER OF DRAWINGS:	8 Drawing Page(s)	
LINE COUNT:	2123	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 2 OF 4 USPATFULL on STN
TI Spinner preparation machine and cavity resonator
AB The present invention relates to the treatment of disorders
using heme oxygenase-1 and heme degradation products.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
ACCESSION NUMBER: 2006:4464 USPATFULL
TITLE: Spinner preparation machine and cavity resonator
INVENTOR(S): Bach, Fritz H., Manchester-by-the-sea, MA, UNITED
STATES
Berberat, Pascal O., Heidelberg, GERMANY, FEDERAL
REPUBLIC OF
Robson, Simon C., Weston, MA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20060003922	A1	20060105
APPLICATION INFO.:	US 2003-511612	A1	20030415 (10)
	WO 2003-US11411		20030415
			20050805 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-372762P	20020415 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FISH & RICHARDSON PC, P.O. BOX 1022, MINNEAPOLIS, MN, 55440-1022, US	
NUMBER OF CLAIMS:	58	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	27 Drawing Page(s)	
LINE COUNT:	3083	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L8 ANSWER 3 OF 4 USPATFULL on STN
 TI Pharmaceutical use of nitric oxide, heme oxygenase-1 and products of heme degradation
 AB The present invention relates to the treatment of disorders using nitric oxide (NO), heme oxygenase-1 (HO-1) and heme degradation products such as carbon monoxide (CO), biliverdin, bilirubin and iron.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 ACCESSION NUMBER: 2004171542 USPATFULL
 TITLE: Pharmaceutical use of nitric oxide, heme oxygenase-1 and products of heme degradation
 INVENTOR(S): Bach, Fritz H., Manchester-by-the-sea, MA, UNITED STATES
 Otterbein, Leo E., New Kensington, PA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20040131703	A1	20040708
APPLICATION INFO.:	US 2003-600182	A1	20030620 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-390457P	20020621 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FISH & RICHARDSON PC, 225 FRANKLIN ST, BOSTON, MA, 02110	
NUMBER OF CLAIMS:	23	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	8 Drawing Page(s)	
LINE COUNT:	2300	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L8 ANSWER 4 OF 4 WPIDS COPYRIGHT 2009 THOMSON REUTERS on STN
 TI Use of heme oxygenase-1 and heme degradation products for e.g. reducing inflammation, organ transplantation and treating e.g. cellular proliferative disorder
 AN 2003-903222 [82] WPIDS
 AB WO 2003088748 A1 UPAB: 20060121
 NOVELTY - Reducing (M1) inflammation involves:
 (1) administration of at least one treatment selected from inducing ferritin;
 (2) expressing ferritin; and
 (3) administering a pharmaceutical composition (C1) comprising heme oxygenase-1 (HO-1), bilirubin, biliverdin, ferritin, iron, desferoxamine, salicylaldehyde isonicotinoyl hydrazone, iron dextran, or apoferritin.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for:

(1) A method (M2) of transplanting an organ by three different ways (M2a, M2b, M2c). (M2a) involves (ia) administration of at least one of the treatments to a donor to enhance survival or function of the organ after the transplantation, (ib) obtaining an organ from the donor, and (ic) transplanting the organ into a recipient. (M2b) involves (iia) administering to an organ of a donor *ex vivo* at least one of the treatments, and (iib) transplanting the organ into a recipient. (M2c) involves (iiia) transplanting an organ from a donor into a recipient, and (iiib) administering at least one of the treatments to the recipient; and (2) A method (M3) of performing angioplasty and vascular surgery involving performing angioplasty and vascular surgery, respectively, and administering at least one of the treatments.

ACTIVITY - Anti-inflammatory; Antiulcer; Antiasthmatic; Tranquilizer; Respiratory-Gen.; Thrombolytic; Hypotensive; Cardiovascular Gen.; Cerebroprotective; Antiarteriosclerotic; Vasotropic; Cardiant; Nephrotropic; Hepatotropic; Virucide; Gastrointestinal Gen.; Antirheumatic; Antiarthritic; Vulnerary; Neuroprotective; Nootropic; Antiparkinsonian; Immunosuppressive; Antibacterial; Uropathic; Cytostatic; Gynecological.

The anti-inflammatory efficacy of biliverdin was evaluated in an animal model of endotoxic shock. Administration of endotoxin in male Sprague-Dawley rats resulted in lung inflammation, neutrophil accumulation, and increased levels of tumor necrosis factor-alpha (TNF-alpha) in the serum. The rats were administered with biliverdin (50 micromol/kg) 17 hours prior to, and 8 hours after endotoxin administration. Serum level of TNF-alpha was measured by ELISA kits, and total cell counts was determined by differential analysis. The results showed that biliverdin reduced levels of TNF-alpha; levels of neutrophils and protein accumulation in the airspaces; and also increased the levels of anti-inflammatory cytokine IL-10.

MECHANISM OF ACTION - None given.

USE - The treatment is useful for reducing and treating inflammation of the heart, lung, liver, spleen, brain skin and kidney; inflammatory condition (e.g. amoebic dysentery, bacillary dysentery, schistosomiasis, campylobacter enterocolitis, yersinia enterocolitis, enterobius vermicularis, radiation enterocolitis, ischaemic colitis, eosinophilic gastroenteritis, ulcerative colitis, indeterminate colitis, and Crohn's disease) localized in the gastrointestinal tract; asthma; adult respiratory distress syndrome; interstitial pulmonary fibrosis; pulmonary emboli; chronic obstructive pulmonary disease; primary pulmonary hypertension; chronic pulmonary emphysema; congestive heart failure; peripheral vascular disease; stroke; atherosclerosis; ischemia-reperfusion injury; heart attacks; glomerulonephritis; nephrotic disorders; infection of the genitourinary tract; viral and toxic hepatitis; cirrhosis; ileus; necrotizing enterocolitis; specific and non-specific inflammatory bowel disease; rheumatoid arthritis; deficient wound healing, Alzheimer's disease, Parkinson's disease, graft versus host disease, and hemorrhagic, septic, or anaphylactic shock; cellular proliferative and differentiative disorder. For reducing the effects of ischemia. For transplanting organs and performing angioplasty or vascular surgery (all claimed). Also for treating other autoimmune diseases and reproductive disorders.

ADVANTAGE - The heme-oxygenase-1 and the heme degradation products attenuate inflammation and suppress the damage associated with ischemia.

ACCESSION NUMBER: 2003-903222 [82] WPIDS

TITLE: Use of heme oxygenase-1 and heme degradation products for e.g. reducing inflammation, organ transplantation and treating e.g. cellular proliferative disorder

DERWENT CLASS: B04; B05; S03

INVENTOR: BACH F H; BERBERAT P O; ROBSON S C

PATENT ASSIGNEE: (BACH-I) BACH F H; (BERB-I) BERBERAT P O; (ROBS-I) ROBSON S C; (BEIS-C) BETH ISRAEL DEACONESS MEDICAL CENT
COUNTRY COUNT: 102

PATENT INFO ABBR.:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC
WO 2003088748	A1	20031030	(200382)*	EN	56[27]	
AU 2003226366	A1	20031103	(200438)	EN		
EP 1499186	A1	20050126	(200508)	EN		
JP 2005522521	W	20050728	(200549)	JA	59	
US 20060003922	A1	20060105	(200603)	EN		

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2003088748	A1	WO 2003-US11411	20030415
AU 2003226366	A1	AU 2003-226366	20030415
EP 1499186	A1	EP 2003-746978	20030415
JP 2005522521	W	JP 2003-585506	20030415
EP 1499186	A1	WO 2003-US11411	20030415
JP 2005522521	W	WO 2003-US11411	20030415
US 20060003922	A1 Provisional	US 2002-372762P	20020415
US 20060003922	A1	WO 2003-US11411	20030415
US 20060003922	A1	US 2005-511612	20050805

FILING DETAILS:

PATENT NO	KIND	PATENT NO	
AU 2003226366	A1	Based on	WO 2003088748 A
EP 1499186	A1	Based on	WO 2003088748 A
JP 2005522521	W	Based on	WO 2003088748 A

PRIORITY APPLN. INFO: US 2002-372762P 20020415
US 2005-511612 20050805

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